

Docket No. 217 – Development and Management Plan Inspection

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

Date: June 7, 2006

Inspector: Don Ukers

Location: Overhead Line (Composite 345kV and 115kV Gallows Hill to Archers Lane,
345kV H-Frame Hoyts Hill to Gallows Hill, and Norwalk Section)

Storm/

Rain Event: Between 1.52-2.23" of rain was recorded over 6/1-6/3 and 1.5" of rain was recorded on 6/7 as reported by NOAA and depending on location.

Areas of Inspection	Observation	Recommended Action	Corrective Action
Access Roads and Adjacent Roadways	- The Composite ROW work is accessible from Gallows Hill Rd by an existing trail path with a swing gate, an approved access path in from the east of the ROW, an access road passing through the Archers Lane substation, and an area cleared from the station to the ROW. 6/7/06.	- If necessary, additional measures for stability should be considered for access needs. If any areas still have ruts at the end of the work, they will need to be regraded to return to original conditions. 12/8-6/7/06.	-N/A until evaluation at the end of work.
Composite	- Active clearing was not noted past Archers Lane. Wood chips have been blown off the cleared ROW in some areas. See the vegetative clearing section for more details. 3/2-6/7/06.	-See vegetative clearing section for details and recommendations. 6/7/06.	- Still needs attention
	- One spot along the access road past Archers Lane has stone dust from the road overtopping the silt fence adjacent to the wetland. A second spot is also piling up. 6/7/06.	- Repairs should be made either by transition station or overhead crews. Stone/sediment needs to be removed. 6/1-6/7/06.	-Needs attention- also see transition station report.
345kV H-Frame	- Other work areas are	-Continue to monitor the	- N/A at this time

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Norwalk Section	accessed from Hoyts Hill, Chestnut Ridge Rd, the Bethel Res. water plant road, Lime Kiln Rd, Whortleberry Rd, John Todd Way and Costa Lane. 3/29-6/7/06. - Washouts were noted within the wood chips in the access road between poles #5-6. 6/7/06	conditions of all access roads. If muddy conditions re-occur, place more wood chips or consider installing silt fence as needed. 6/7/06. - The wood chips will be back bladed to restore the washouts 6/7/06	- Needs attention when feasible.
	- Large erosive washouts were also noted within the stone dust at structure #2. 6/7/06	- This will need to be repaired and stone pulled back from beyond the silt fence.	- Needs attention when feasible.
	- A low spot at the access road is leading to turbid run-off to the wetland near structure #6. 6/7/06	- Install haybales or silt fence to slow and filter this run-off. 6/7/06	-Needs attention
	- A vehicle accidentally drove through the wetland between poles #10-11 after mats were removed. Some ruts were created but the water main was not damaged. 5/25-6/7/06	- See erosion control section for more details but ruts should be smoothed out and additional controls installed. 5/25-6/7/06 A sign was installed to prevent further trips	- Needs attention (some reports from adjacent landowners have noted non project related vehicles in this area)
	- Stone dust and/or gravel access roads are in place at Perry Ave and Broad St. 4/6-6/7/06.	- Controls are in place. 6/7/06.	- N/A at this time
	-Access is gained to new work areas off North Seir Hill Rd. Dust access roads were also completed off Kent Rd. in both directions and up to the pond in the north. 5/25-6/7/06	-Silt fence was installed along the entire edge of one section of road. 5/25-6/7/06. See erosion control section for several recommendations. 6/7/06	- Needs attention
	-Several wetlands are matted here and most have silt fence installed at the corners. A few areas now need	- Several areas had turbid water overtopping the silt fence in the ROW to the south of Kent Rd access road to the wetland.	- Most matted crossings have controls but maintenance is needed in several locations

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	maintenance. 6/7/06	6/7/06.	
Line Construction Composite	- The upper wire had been installed in the structures leading into Archers Lane. 5/25-6/7/06.	- See erosion controls section for more information. 5/25-6/7/06.	-N/A
345kV H-Frame	- Rope has been pulled through the Bethel Reservoir section. 6/7/06.	- None at this time. 6/7/06.	-N/A
Norwalk Section	- Old towers remain down in the area of Perry Ave and several new structures are under construction. 6/7/06.	-None at this time. 6/7/06.	- N/A
	- All foundations that could be accessed by North Seir Hill Rd have been poured. 6/7/06	- See erosion controls section for more information. 6/7/06.	-N/A
	- Old towers were taken down south of Kent Rd. and will eventually be removed. 6/7/06	- None at this time. 6/7/06	- N/A
	- Foundation drilling was also noted in several areas off Kent Rd. to the south. 6/7/06	- See erosion controls section for more information. 6/7/06	- N/A
Erosion and Sediment Controls Composite	- Water levels appear to remain below problem levels at the 2 nd wetland crossing along the Archers Lane access road. 2/16-6/7/06.	- None at this time. 6/7/06.	-N/A
	- Silt fence is being overtopped and/or sediment is piling from run-off on the access road past Archers Lane. 6/1-6/7/06	-The overtopped area should be repaired with stone pulled back and removed from the wetland. Continue to monitor the second spot. 6/1-6/7/06	- Needs attention from either transition station or overhead crews
	- Wood chips had been blown into the uplands and wetland area at the third structure in from	-Make sure chips stay on the ROW. Contractors should remove the off ROW chips since this is	-Still needs attention (CL&P is looking into a solution here)

Areas of Inspection	Observation	Recommended Action	Corrective Action
Erosion controls continued	Gallows Hill Road. 2/22-6/7/06. Another area with deep wood chips off the cleared ROW remains past Archers Lane. 3/15-6/7/06.	not allowed in the D&M plan. 2/22-6/7/06. - Wood chips on the ROW can remain at a depth of 3". Deeper piles should be spread out. 4/6-6/7/06.	
345kV H-Frame	- An old stockpile was noted at a structure before Rt 53 off Gallows Hill. 5/17-6/7/06	-Make sure that restoration occurs in previously disturbed areas and that materials are removed and not forgotten in place. 5/17-6/7/06	- Needs attention when feasible
Chestnut Ridge Section	- Run-off and erosion has worsened along the slope near pole #2. Stone over-topped the silt fence. 6/7/06	- Some haybales should be placed along the slope to slow run-off velocity and sediment should be pulled back. 6/1-6/7/06	- Needs attention
	-The majority of the pile at structure#6 has been removed but soil remains encroaching on wetlands 4/12-6/7/06.	- Remove the soil here as soon as conditions can support this without further impact. 2/22-6/7/06.	- Needs attention when feasible
	- Turbid run-off is pooling along the access road and running to the wetland adjacent to structure #6. 6/7/06	- Place haybales or silt fence to slow and filter run-off. 6/7/06	- Needs attention
Bethel Reservoir Section to Chestnut Ridge Rd.	-Sediment washed under the silt fence near structure #19. It reached the adjacent wetlands here. 6/7/06.	- The silt fence needs repair and the sediment should be pulled back carefully. 6/7/06.	-Needs attention
	- A vehicle accidentally crossed the stream & wetland between poles #10-11. Some ruts were created in the wetland. 5/25-6/7/06	- The ruts in the stream or wetland should be smoothed out. (No damage to the water main had occurred.) 5/25-6/7/06	- Needs attention
	Disturbed soil remained on the access road adjacent to the wetland	Additional controls should be placed across the ROW to prevent	- Needs attention. This will also help to keep out any non project

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Costa Lane, Whortleberry, Lime Kiln and John Todd Way	here. 5/17-6/7/06. -Mats are in place at the wetland crossing in the vicinity of pole #29. 3/2-4/6-6/7/06. -Sediment is close to washing over silt fence at poles #25 and has already washed over at #24. 6/7/06.	sedimentation. 5/17-6/7/06 -Continue to monitor the crossing for increasing muddy conditions and install silt fence as needed. 3/2-6/7/06. -Silt fence will have to be monitored and any sediment removed from beyond the fence. 6/7/06.	related vehicles -N/A at this time - Needs attention
Norwalk Section	- A contractor (unrelated to the project) was in this area working on a driveway. Silt fence was not installed near the work and they were tracking to the road. -The area of silt fence near pole #11078 had sediment piled up against it again. 6/7/06. - The foundation near the Norwalk substation has good silt fence coverage. 5/17-6/7/06. Bare, exposed soil remains adjacent to the foundation. 6/7/06	- This is not project related but should be noted for the record in case there are issues here later. 6/7/06 -Controls need repair and sediment should be pulled back. 6/7/06 -Continue to monitor due to proximity of the river. Consider picking up adjacent debris left behind by the river. Restore the adjacent area to reduce run-off. 6/7/06	- Not project jurisdiction -Needs attention -N/A
Kent Rd. (North – new ROW section)	- Mats were installed at foundation #68 on North Seir Hill Rd. due to wet conditions. 6/1-6/7/06 - The stream/wetland crossing in the Kent Rd, new ROW section, had corner controls installed. 6/7/06 -Although water in the stream was not turbid during the heavy rain. Portions of the banks should have silt fence	-Install silt fence downgradient of the mats if necessary. 6/1-6/7/06. -Continue to monitor to prevent runoff from the access road. 6/7/06. -Extend the silt fence along both banks of the stream to prevent run-off from the recently cleared areas. 6/7/06	-Needs attention if feasible. - Corner controls were installed. 6/7/06 - Needs attention -Mats were used to prevent ruts.

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Kent Rd. (South)	<p>due to lack of vegetation 6/7/06</p> <ul style="list-style-type: none"> - The swale leading into a wetland area in this section has good silt fence installed. 6/7/06 - Mats were in place at the poled wetland crossing as well. Water here remains clear without obvious turbidity. 6/7/06 -Silt fence was installed along the pond. The pond was not receiving any turbid run-off, even during heavy rains but a few spots in the silt fence may come un-toed. 6/7/06 -Slightly turbid run-off was noted leaving the ROW at Kent Rd and flowing to an inlet at the railroad. 6/7/06 - Mats are installed along much of the ROW south of Kent Rd. During the heavy rains, turbid water was overtopping silt fence in several locations here. Stone had also overtopped in one spot. 6/7/06 - On the approach to the first matted crossing, ruts were noted in the mud. 6/7/06 	<ul style="list-style-type: none"> - Erosion controls were well installed and should be maintained. 6/7/06 - Continue to monitor. Watch silt fence for any areas that need to be toed back in. 6/7/06 - Monitor silt fence carefully and restore all spots beginning to come un-toed. 6/7/06 -Stone could be added at the access to Kent Rd to prevent and filter run-off 6/7/06 - Pull silt fence up and repair. These areas will be difficult to control during heavy rain due to a steep grade and a number of spots with channelized flow. Pull stone/sediment back from wetland where necessary. 6/7/06 - Repair ruts and place silt fence as necessary. 6/7/06 	<ul style="list-style-type: none"> -Silt fence was installed as recommended. - N/A at the time -N/A at the time. - Needs attention if feasible - Needs attention - Needs attention
Inland Wetland and Watercourse encroachment and mitigation	<ul style="list-style-type: none"> -The D&M plan approved stone on geotextile fabric at the wetland crossings have worked well. 4/6-6/7/06. 	<ul style="list-style-type: none"> - As the access is considered temporary, the stone will be removed when final work ends so the wetlands can be restored. 1/26-6/7/06. 	<ul style="list-style-type: none"> -N/A until evaluated at the end of work.

Areas of Inspection	Observation	Recommended Action	Corrective Action
Composite	- Direct damage was noted in the wetland at the 3 rd crossing as a result of equipment slipping. 2/16-6/7/06.	- The damage to the 3 rd wetland should be repaired if feasible but it may be more damaging to go in at this time. 5/4-6/7/06.	-N/A
345kV H-Frame	- At structure #6, most of the mud was removed from the wetland and they will continue to do so. 4/6-6/7/06.	- Continue to remove entire pile. 2/16-6/7/06.	-Needs attention when feasible.
	- A vehicle had accidentally tracked through the wetland between #10-11 several weeks ago. 6/1-6/7/06	- Ruts should be smoothed out and additional controls are needed. 5/25-6/7/06	-Needs attention (Silt fence will also keep out non project related vehicles)
Norwalk Section	-The pond, stream, and pooled area in the new ROW section off Kent Rd were not impacted with turbidity, even during heavy rains. 6/7/06.	-Carefully remove some of the branches and debris noted in the stream and extend silt fence where recommended. 6/7/06.	-N/A but see erosion control section
All Sections	- Remove sediment carefully from any wetland areas and pull back silt fence and repair. 6/7/06	- Retain shrubs and low growth as much as possible, especially at stream buffers. 3/2-6/7/06.	- Needs attention.
	- The rains brought a number of washout issues and areas that overtopped silt fence. 6/7/06	-Carefully remove brush piles and trees from near wetland areas. 3/2-6/7/06.	- Several wetland areas in the new section had retained shrubs.
	- Use caution in clearing trees from wetland areas. Avoid creating ruts when skidding them out. 3/29-6/7/06.	- Watch this near the pooled area on the new ROW section	-N/A
	-If a wetland is being used as amphibian breeding habitat, retaining some wood debris at its boundaries may be beneficial. 3/2-6/7/06.		
State species of concern, threatened and	- The composite portion of overhead work includes state-listed turtle	- Now that weather is warmer, daily walkthroughs should be	-N/A at this time

Areas of Inspection	Observation	Recommended Action	Corrective Action
endangered species	<p>habitat area. 9/15-6/7/06.</p> <p>-The Eastern box turtle has not been observed since the first sighting but is now in an active season. 4/6-6/7/06.</p>	<p>occurring prior to any work in the area. 4/6-6/7/06.</p>	
<p>Vegetative clearing limits (including trees to save or danger trees noted)</p> <p>Composite</p>	<p>- Adjacent homeowners near Gallows Hill mentioned damage to mountain laurel and other shrubs. 3/2-6/7/06.</p> <p>- A significant amount of chips were blown off the ROW into the upland and also along the wetland edge at the 3rd structure off Gallows Hill. These areas are off property. 2/22-6/7/06.</p> <p>-This was also noted several structures past Archers Lane. 3/15-6/7/06.</p> <p>-Clearing was not actively occurring along the ROW past Archers Lane. 6/7/06.</p> <p>-Two cleared corridors are present into Norwalk Junction. It appears that efforts to retain shrubs, especially in wetland areas could have been improved here 5/10-6/7/06.</p> <p>- Clearing of new ROW is underway in the Kent Rd. section and continues the bank of the pond. 6/7/06</p> <p>- Efforts were made to retain stumps and shrubs along the bank of the</p>	<p>-In general, take care in retaining shrubs and use mats to access or skid out trees from wetlands. 2/22-6/7/06.</p> <p>-Replace shrubs where necessary. 6/7/06</p> <p>- Chips currently off ROW boundaries should be removed carefully to comply with the D&M plan. 2/22-6/7/06. Chips on ROW should be spread to a depth of 3". 4/6-6/7/06.</p> <p>- To avoid wetland damage, trees here will be sheared from the access road and felled out of the water. 3/15-6/7/06</p> <p>-The area was largely clearcut when the D&M plan states low growing shrubs can remain. 5/10-6/7/06</p> <p>- Be extremely careful to retain shrubs and vegetation where feasible. 5/25-6/7/06</p> <p>- Some downed branches were noted in the stream that could be carefully</p>	<p>-Needs attention when feasible</p> <p>- Still needs attention CL&P is looking into this.</p> <p>- CL&P proposed the work under these specs.</p> <p>-N/A</p> <p>- Several areas near wetlands did have shrubs in place.</p>
Norwalk Section			

Areas of Inspection	Observation	Recommended Action	Corrective Action
	pond, stream and pooled area. 6/7/06	removed. 6/7/06	
Dewatering	<ul style="list-style-type: none"> - No obvious dewatering efforts were noted but rains were so heavy the day of inspection it would have been difficult to determine run-off source. 6/7/06. - If this is needed by foundation #68, make sure controls are installed due to the proximity of wetlands. 6/7/06 	<ul style="list-style-type: none"> - Release water to the ground only in well vegetated areas if it will not reach any resource areas. (Make sure to check downgradient for these areas) Otherwise use a filter bag or adequate containment. 3/9-6/7/06. 	-N/A at this time
Blasting	-No blasting has been necessary at this time on the ROW. 6/7/06.	-None at this time. 6/7/06.	-N/A
Spills and Material Storage	<ul style="list-style-type: none"> -None of the parked or active equipment was leaking at the time of inspection. 3/15-6/7/06. - The contractor unrelated to the project at John Todd Way was storing a re-fueling tank adjacent to the wetland 6/7/06 	<ul style="list-style-type: none"> - Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site - Keep adequately size fuel kits for worst case scenarios. - Report spills immediately, even if they are being controlled. - Avoid refueling in the areas near the wetlands. Use proper storage for all materials. 	<ul style="list-style-type: none"> -N/A - Not jurisdictional to the project
Additional Observations			

Next likely scheduled inspection:

Wednesday June 14, 2006

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its

attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

Inspector's Signature: Diana Walden for Don Ukers



(Composite Section): Photo on the left shows an area of silt fence that was overtopped with stone dust along the access road in the ROW past Archers Lane. Photo on the right shows a spot in the same area where sediment is piling up. 6/7/06



(345kV H-Frame): Photo on the left shows a view of the wetland between structures #10 and 11. Silt fence still needs to be installed across the ROW on both ends and the surface restored where necessary. Photo on the right shows a washout off the Bethel Reservoir access road. 6/7/06.



Photo on the left shows washout and erosion near structure #2. Photo on the right shows erosion primarily within the wood chips between structures #5-6. The area will be back bladed to restore the chips. 6/7/06.



Photo on the left shows where run-off from the access road is flowing to the wetlands near structure #6. Haybales should be placed at this area. Photo on the right shows where sediment had overtopped the silt fence near structure #24. Repairs are needed here and at #25. 6/7/06.



Photo on the left shows a separate contractor (unrelated to the project) installing a driveway near John Todd Way. This contractor had several erosion control and storage issues that are not in the jurisdiction of the project. (Norwalk Section Kent Rd): Photo on the right shows the silt fence installed along the pond's edge in the new ROW section. 6/7/06.



Photo on the left shows the bank of the pond beyond the silt fence. Water showed no signs of turbidity during the heavy rains and some stumps and shrubs were in place. Photo on the right shows another view of the pond with some shrubs remaining. 6/7/06



Photo on the left shows an overview of the cleared new section of ROW where most vegetation is removed. Trees still will be removed along the railroad tracks. Photo on the right shows a matted area with some evidence of shrubs having been retained. 6/7/06



Photo on the left shows where the silt fence was installed along the natural swale area as recommended. Photo on the right shows the matted crossing at the stream with silt fence installed at each corner. 6/7/06



Photo on the left shows the stream crossing under the mats. Water was fairly free of turbidity but silt fence should be extended along the banks to prevent run-off and branches in the stream should be picked up carefully by hand. Photo on the right shows the matted crossing at the pooled area. Water here is also free of turbidity issues. 6/7/06



Photo on the left shows the intersection of the ROW with Kent Rd. A stone pad should be installed here to help filter/reduce run-off. Photo on the right shows a view of some ruts and disturbance near a matted crossing to the south of Kent Rd. Repair as necessary. 6/7/06



(Kent Rd: south): Photo on the left shows a spot where gravel washed beyond the silt fence at a matted crossing. Remove any sediment/stone on the other side of the fence Photo on the right shows where turbid water was overtopping silt fence along the mats during the heavy rain. This was noted in several locations along this section of ROW. 6/7/06



Photo on the left shows drilling at a structure location along Kent Rd to the south. Photo on the right shows a view of the Perry Ave section where construction of new structures continues. 6/7/06